



BAT760

Features

- Very Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Lead, Halogen and Antimony Free/RoHS Compliant (Note 1)
- "Green" Device (Notes 2 & 3)
- Qualified to AEC-Q101 Standards for High Reliability

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Mechanical Data

- Case: SOD-323
- Case Material Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminal Connections: Cathode Band
- Terminals: Finish Matte Tin Annealed Over Alloy 42 Leadframe. Solderable per MIL-STD-202, Method 208
- Weight: 0.004 grams (approximate)



Top View

Ordering Information (Note 4)

Part Number	Case	Packaging
BAT760-7	SOD-323	3000/Tape & Reel

Notes: 1. No purposefully added lead. Halogen and Antimony Free.

2. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com.

3. Product manufactured with Green Molding Compound and does not contain Halogens or Sb₂O₃ Fire Retardants.

4. For packaging details, go to our website at http://www.diodes.com.

Marking Information





Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
Average Rectified Output Current	lo	1	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	5.5	A

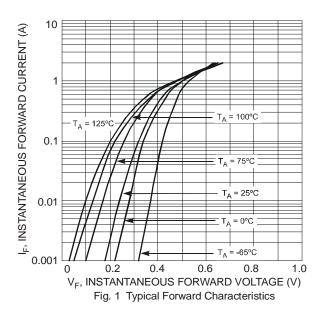
Thermal Characteristics

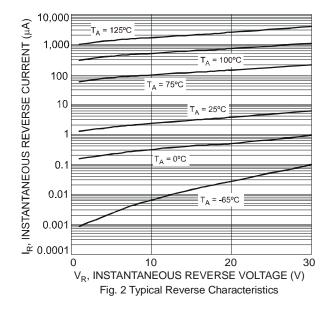
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	235	mW
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{ heta JA}$	426	°C/W
Operating and Storage Temperature Range	T _{J,} T _{STG}	-65 to +150	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

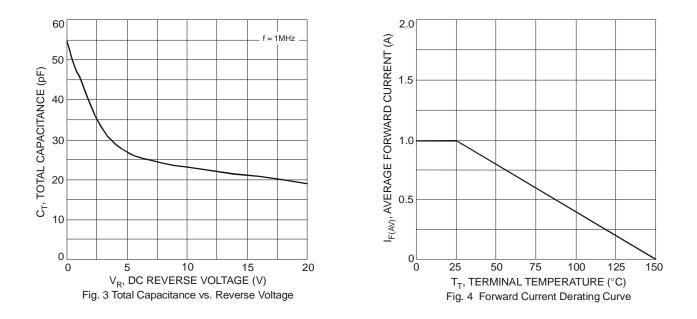
Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	30		_	V	I _R = 500μA
Forward Voltage Drop	VF		245 320 495	270 350 550		I _F = 10mA I _F = 100mA I _F = 1A
Leakage Current (Note 6)	I _R		3.0 3.5 5.0	10 20 50	μΑ	V _R = 5V V _R = 8V V _R = 15V
Total Capacitance	CT		25	_	pF	$f = 1MHz, V_R = 5VDC$

Notes: 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com. 6. Short duration pulse test used to minimize self-heating effect.

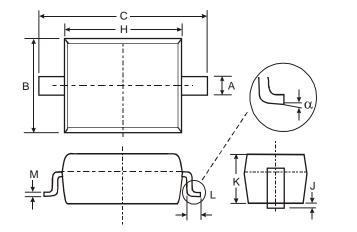






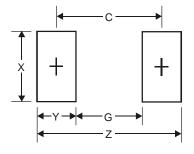


Package Outline Dimensions



SOD-323				
Dim	Min	Max		
Α	0.25	0.35		
в	1.20	1.40		
С	2.30	2.70		
Н	1.60	1.80		
J	0.00	0.10		
K	1.0	1.1		
L	0.20	0.40		
Μ	0.10	0.15		
α	0°	8°		
All Dimensions in mm				

Suggested Pad Layout



Dimensions	Value (in mm)
Z	3.75
G	1.05
Х	0.65
Y	1.35
С	2.40



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